

**AMENDMENTS TO THE DRAWINGS**

Please replace Figures 1-5 with the attached figures. Figures 1-5 have been amended to make various changes, including to separately label each figure, increase the size of the reference characters and to improve the quality of the lines, numbers and letters.

Attachment: Replacement Sheet(s) 1-5

**REMARKS**

Claims 2 and 16 have been amended to correct informalities. Figures 1-5 have been amended to correct informalities. Claim 42 has been added directed to a recitation deleted from Claim 6, and Claim 7 has been amended accordingly. The Specification has been amended to change the title to further describe the presently claimed invention. Upon entry of this Amendment, which is respectfully requested, Claims 2-23, 32-38 and 40-42 will pending, of which, Claims 11-13, 33-38, 40 and 41 have been withdrawn from consideration.

**Response to Objection to the Drawings**

The drawings filed on January 3, 2005 were objected to for informalities.

Figures 1-5 have been amended to make various changes, including to separately label each figure, increase the size of the reference characters and to improve the quality of the lines, numbers and letters.

In addition, Applicants note that the originally filed drawings were deemed sufficiently clear by the International Bureau for the official publication of PCT/GB2003/002863, from which the present application is derived. Further, the Examiner previously indicated in the Office Action dated February 26, 2007, that the original drawings were accepted.

Withdrawal of the objection to the drawings is respectfully requested.

**Response to Objection to the Specification**

The title of the invention was objected to as not descriptive.

Without comment as to the veracity of the objection, the title has been amended to further describe the presently claimed invention. Accordingly, withdrawal of the objection to the specification is respectfully requested.

**Response to Claim Objections**

Claims 2 and 16 were objected to because of informalities.

Claims 2 and 16 have been amended to correct the informalities. Accordingly, withdrawal of the objection is respectfully requested.

### Response to Claim Rejections Under § 103

Claims 2-10, 14-16, 18-23 and 32 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 4,826,774 to Nagel. Applicants respectfully traverse.

Present Claim 2 relates to an electronic switching device comprising source and drain electrodes connected by a semiconductor channel, wherein the semiconductor channel. Specifically, the semiconductor channel includes a semiconductor material of a metal complex, wherein the metal complex comprises a chain of cations and anions, wherein each anion and cation comprises a metal atom and the ions are bonded such that charge carriers of the metal atoms are delocalized along the chain.

In contrast, the chemical FET of Nagel is a transistor wherein the charge on the gate electrode is applied by a chemical process. Nagel discloses a chemical FET wherein the gate electrode is comprised of a vapour-sensitive material, thereby providing a device by which vapour can be detected by monitoring the change in the current between the source and drain electrodes caused by a change in the properties of the gate electrode material in response to contact with the vapour. Nagel fails to disclose or suggest the material for a semiconductor channel.

Thus, Nagel fails to render obvious the present claims. Accordingly, withdrawal of the rejection is respectfully requested.

Claims 2-10, 14-23 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,160,267 to Kunugi et al in view of U.S. Patent No. 5,946,550 to Papadimitrakopoulos. Applicants respectfully traverse.

Kunugi discloses an organic complex material for light-emitting diodes (i.e., not FETs) that acts as both a sensor to certain organic molecules or analyte vapours, and as an active light-emitter (see, e.g., the title of Kunugi and the opening paragraph at col. 1, as well as the disclosure at col. 1, lines 54-60).

Thus, one skilled in the art would not be motivated to use the material of Kunugi for the semiconductor channel of a transistor such as that illustrated in Figure 6 or 7 of Papademitrakopoulos.

In addition, as the Examiner notes at page 6 of the Office Action, Papademitrakopoulos discloses that an advantage of the claimed material is "remarkable film-forming uniformity." Thus, one skilled in the art would not be motivated to replace the material of Papademitrakopoulos with the material of Kunugi, since it would be contrary to the teaching of Papademitrakopoulos to replace the Papademitrakopoulos material with a material that is not taught as exhibiting even better film-forming properties.

Accordingly, Kunugi and Papademitrakopoulos fail to render obvious the present claims. Withdrawal of the rejection is respectfully requested.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

*Bruce Kramer*  
Alan J. Kasper / Reg. No. 33,725  
Alan J. Kasper  
Registration No. 25,426

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE  
**23373**  
CUSTOMER NUMBER

Date: October 10, 2008